To Users

• Be sure to ask a specialist contractor for installation.
• Keep this instruction manual in a safe place.
• If you have any questions, please contact our sales representative.

To Construction Operators

• Read this installation manual carefully before construction and install correctly.
• Be sure to deliver this instruction manual to the user.
• The water leakage detection sheet is a simple test kit for the water flow test of the drain hose.

PLEASE NOTE: We shall not be liable for any damage caused by water leakage during and after the test.

1. READ FIRST

This product is an exclusive hose for drain-up piping commercial A/C. Do not use for other piping.

Request:
If the following procedures will not be executed, the expected functions and performance of the product may not be demonstrated.

• The starting height of the hose shall be less than or equal to the maximum starting height specified by the air conditioner manufacturer.
• This piping is exclusive for indoor use. Do not use the product outdoors.

2. PRECAUTIONS FOR PROPER AND SAFE USE

The following explains how to prevent harm to the users and others and prevent damage to property. The degree of harm or damage caused by the incorrect use of the product by ignoring the labeling is classified by the following labeling.

Notification:
Failure to comply with the following conditions may result in property damage.

• Be sure to use the hose band enclosed. Use of other than enclosed hose bands may cause water leakage.
• Use the insulation cover provided for the joint and carry out the insulation work according to the installation procedure. Condensation may occur depending on the environment condition.
• Wind the insulation adhesive tape enclosed in the product to the support part of the hose. Otherwise, condensation may occur due to collapse of the insulation layer due to the self-weight of the hose.
3. **SET CONTENTS (NAME OF EACH PART)**

![Diagram of set contents]

- Insulated drain hose with coupling joint x 1 piece (Hose Band x 2 pieces)
- Elbow insulation cover x 1 piece
- Straight insulation cover x 1 piece
- Insulation adhesive tape x 1 sheet
- Water leakage detection sheet x 2 sheets

4. **PRODUCT SPECIFICATIONS**

**Dimensions**

![Diagram of dimensions]

<table>
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<tr>
<th>Product Code</th>
<th>Item No.</th>
<th>Applicable PVC Pipe</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<td>Ø26</td>
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Unit: mm

( ) = Reference
Material and Color Tone

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<thead>
<tr>
<th>Name</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>Insulated Drain Hose With Coupling Joint</td>
<td>Inner &amp; Outer Layers of Hose Film</td>
<td>Polyvinyl chloride</td>
</tr>
<tr>
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<td>Hose Insulation</td>
<td>30x foamed polyethylene</td>
</tr>
<tr>
<td></td>
<td>Elbow Joint</td>
<td>Polyvinyl chloride</td>
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<tr>
<td></td>
<td>Straight Joint</td>
<td>Polyvinyl chloride</td>
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<tr>
<td>Hose Band</td>
<td></td>
<td>SUS</td>
</tr>
<tr>
<td>Elbow Insulation Cover</td>
<td></td>
<td>30x foamed polyethylene</td>
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<tr>
<td>Insulation Adhesive Tape</td>
<td></td>
<td>30x foamed polyethylene</td>
</tr>
<tr>
<td>Water Leakage Detection Sheet</td>
<td>Sheet: Paper</td>
<td>Sheet: White (detection line: Blue)</td>
</tr>
<tr>
<td></td>
<td>Inspection Bag: PE</td>
<td>Inspection Bag: Transparent</td>
</tr>
</tbody>
</table>

5. INSTALLATION PROCESS

1. Check of piping route:

(1) Check the piping route with R78 or more (inside the bend) for bending radius of the hose so that no load is applied to the hose and the joint.

**NOTE:** Failure to carry out the proper route may result in damage to the hose or leakage of water due to deformation of the coupling joint.

(2) Check the piping route not to occur a reverse gradient after the maximum start-up point. (Figure 1-1)

**NOTE:** If the piping is not installed correctly, drain water may flow backward and water may leak.

Figure 1-1

*1 Pipe support part (Part A)
Wind the insulation adhesive tape enclosed in the product at the supporting part.

**NOTE:** Condensation may occur due to collapse of the insulation layer due to the self-weight of the hose.

*2 Piping gradient (Part B)
2. Connection of the joint:

Connect both the equipment side and the piping side to the joint by [Hose Band Connection].

**HOSE BAND CONNECTION**

1. Make sure that the hose band is attached to the center of ditch on the joint.
   
   **(Figure 2-1)**

   **NOTE:** If the hose band is not installed at the correct position, water may leak.

2. Insert the connection pipe to the back of the joint (30mm).
   
   **(Figure 2-2)**

   **NOTE:** If the hose band is tightened without inserting the pipe to the back, water may leak.

3. After the pipe is inserted, tighten the hose band with a screwdriver.
   
   **(Approximate torque 400N•cm).**

   **(Figure 2-3)**

   **NOTE:** If the hose band is not tightened enough, water may leak. If the hose band is overtightened, it may cause damage.

3. Setting of water leakage detection sheet and installation of insulation cover:

**Request:**

**Before mounting the water leakage detection sheet**

- Use this sheet only for the water flow test of the enclosed drain hose.
- Do not remove the inspection bag. Be sure to carry out the work with a bag attached.
- If water droplets or perspiration adhere to the water leakage detection sheet, the blue line may disappear. Handle the product carefully during installation.
- If the water leakage detection sheet is left in a humid condition for a long time, the blue line may disappear. For this reason, immediately perform the installation and water flow test after opening the seal.
Setting to indoor unit piping or horizontal piping

(1) Set the water leakage detection sheet to the insulation cover.

<Set to elbow insulation cover>
Make sure that the inspection bag of the water leakage detection sheet enters 0 to 20 mm from the end of the insulation cover with the blue line downward. (Figure 3-1). Remove the release paper from the water leakage detection sheet and attach it to the insulation cover.

CAUTION: If the inspection bag is inserted to the insulation cover too deeply (more than 20mm) it may be undetectable.

<Set to straight insulation cover>
Make sure that the inspection bag of the water leakage detection sheet enters 0 to 20 mm from the end of the insulation cover with the blue line downward. Remove the release paper from the water leakage detection sheet and bend it to the outside of the insulation cover. (Figure 3-2).

CAUTION: If the inspection bag is inserted in the insulation cover too deeply (more than 20mm), it may be undetectable.

(2) Install an insulation cover to the joint. (Figure 3-3)

(Figure 3-3)

Insulated drain hose
Insulation cover
Place the detection sheet directly below the insulation cover

(3) Wind PVC tape making no gaps between the pipe and the insulation cover. (Figure 3-3)

CAUTION: Wind the PVC tape overlapping the inspection bag by 10mm or more.

(Figure 3-4)

PVC tape wind
10mm or more

(4) Confirmation after installation
Check if the blue line of the water leakage detection sheet has not disappeared more than two hours after the start of the water flow. After confirming the blue line has not disappeared, cut the base of the leak detection sheet with scissors avoiding damage to the insulation part.

Manufactured by
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